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(FILE 'HOME' ENTERED AT 21:32:56 ON 27 JUL 2009)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 21:33:55 ON 27 JUL 2009

L1 169 S (PEPTIDE OR PROTEIN OR POLYPEPTIDE OR ANTIBODY) (5A)BIND?(4A)L  
L2 4340 S (LIGAND OR LIPOPROTEIN OR PEPTIDE OR PROTEIN OR POLYPEPTIDE O  
L3 23165 S ADENO-ASSOCIATED(3A)VIRUS OR AAV  
L4 4344 S L1 OR L2  
L5 7 S L3 AND L4  
L6 3 DUP REM L5 (4 DUPLICATES REMOVED)  
L7 778 S (MODIFIED OR ALTERED) (5A)TROPISM  
L8 85 S L3 AND L7  
L9 31121 S LIPOPROTEIN(W)RECEPTOR  
L10 0 S L8 AND L9  
L11 44 S L3(P)L9  
L12 23 DUP REM L11 (21 DUPLICATES REMOVED)  
L13 71 DUP REM L1 (98 DUPLICATES REMOVED)

=> d au ti so pi 1-3 16

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
IN Zlokovic, Berislav V.; Wu, Zhenhua; Deane, Rashid  
TI Therapy of Alzheimer neurovascular dysfunction by transfer of GAX to  
promote angiogenesis, suppress apoptosis and increase low d. lipoprotein  
receptor-related protein 1  
SO PCT Int. Appl., 56pp.  
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007019190	A2	20070215	WO 2006-US30148	20060803
	WO 2007019190	A3	20070913		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
	EP 1909574	A2	20080416	EP 2006-800671	20060803
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	US 20090181911	A1	20090716	US 2008-988999	20080318

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
IN Betz, Ulrich; D'Urso, Donatella; Gatsios, Petros; Seewald, Michael; Strayle, Jochen; Van Es, Helmuth Hendrikus Gerardus; Van Zutphen, Marlijn; Mesic, Emir  
TI Novel protein targets and methods of screening for compounds useful in treatment of cardiovascular disorders, dyslipidemia and atherosclerosis  
SO PCT Int. Appl., 136pp.  
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006092209	A1	20060908	WO 2006-EP1451	20060217

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

L6 ANSWER 3 OF 3 MEDLINE on STN DUPLICATE 1  
 AU Loiler S A; Conlon T J; Song S; Tang Q; Warrington K H; Agarwal A; Kapturczak M; Li C; Ricordi C; Atkinson M A; Muzyczka N; Flotte T R  
 TI Targeting recombinant adeno-associated virus  
 vectors to enhance gene transfer to pancreatic islets and liver.  
 SO Gene therapy, (2003 Sep) Vol. 10, No. 18, pp. 1551-8.  
 Journal code: 9421525. ISSN: 0969-7128.

=> d au ti so pi 1-23 112

L12 ANSWER 1 OF 23 MEDLINE on STN DUPLICATE 1  
 AU Craig Anthony T; Gavrilova Oksana; Dwyer Nancy K; Jou William; Pack Stephanie; Liu Eric; Pechhold Klaus; Schmidt Michael; McAlister Victor J; Chiorini John A; Blanchette-Mackie E Joan; Harlan David M; Owens Roland A  
 TI Transduction of rat pancreatic islets with pseudotyped adeno-associated virus vectors.  
 SO Virology journal, (2009) Vol. 6, pp. 61. Electronic Publication: 2009-05-18.  
 Journal code: 101231645. E-ISSN: 1743-422X.  
 Report No.: NLM-PMC2687429.

L12 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
 AU Craig, Anthony T.; Gavrilova, Oksana; Dwyer. Nancy K.; Jou, William; Pack, Stephanie; Liu, Eric; Pechhold, Klaus; Schmidt, Michael; McAlister, Victor J.; Chiorini, John A.; Blanchette-Mackie, Joan E.; Harlan, David M.; Owens, Roland A.  
 TI Transduction of rat pancreatic islets with pseudotyped adeno-associated virus vectors  
 SO Virology Journal (2009), 6, No pp. given  
 CODEN: VJIOA4; ISSN: 1743-422X  
 URL: <http://www.virologyj.com/content/pdf/1743-422x-6-61.pdf>

L12 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
 IN Zlokovic, Berislav V.; Wu, Zhenhua; Deane, Rashid  
 TI Therapy of Alzheimer neurovascular dysfunction by transfer of GAX to promote angiogenesis, suppress apoptosis and increase low d. lipoprotein receptor-related protein 1  
 SO PCT Int. Appl., 56pp.  
 CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007019190	A2	20070215	WO 2006-US30148	20060803
	WO 2007019190	A3	20070913		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,			

MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU,  
 SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,  
 US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA  
 EP 1909574 A2 20080416 EP 2006-800671 20060803  
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR  
 US 20090181911 A1 20090716 US 2008-988999 20080318

L12 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
 AU Hu, Chang-Ping; Dandapat, Abhijit; Liu, Yong; Hermonat, Paul L.; Mehta,  
 Jawahar L.  
 TI Blockade of hypoxia-reoxygenation-mediated collagen type I expression and  
 MMP activity by overexpression of TGF- $\beta$ 1 delivered by AAV in mouse  
 cardiomyocytes  
 SO American Journal of Physiology (2007), 293(3, Pt. 2), H1833-H1838  
 CODEN: AJPHAP; ISSN: 0002-9513

L12 ANSWER 5 OF 23 MEDLINE on STN DUPLICATE 2  
 AU Tanigawa Hiroyuki; Billheimer Jeffrey T; Tohyama Jun-ichiro; Zhang YuZhen;  
 Rothblat George; Rader Daniel J  
 TI Expression of cholesteryl ester transfer protein in mice promotes  
 macrophage reverse cholesterol transport.  
 SO Circulation, (2007 Sep 11) Vol. 116, No. 11, pp. 1267-73. Electronic  
 Publication: 2007-08-20.  
 Journal code: 0147763. E-ISSN: 1524-4539.

L12 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
 AU Xu, Yongping; Zhang, Muxun; Yuan, Gang  
 TI Construction of recombinant adeno-associated  
 virus expressing human full-length very low-density  
 lipoprotein receptor gene  
 SO Huazhong Keji Daxue Xuebao, Yixueban (2007), 36(6), 791-794  
 CODEN: HKDXBU; ISSN: 1672-0741

L12 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
 IN Bowles, Dawn E.; Li, Chengwen; Rabinowitz, Joseph E.; Grieger, Josh;  
 Agbandje-McKenna, Mavis; Samulski, Richard Jude  
 TI Viral vectors with enhanced transduction properties comprising a chimeric  
 adeno-associated virus (AAV) capsid, and therapeutic uses  
 SO PCT Int. Appl., 81 pp.  
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2006066066	A2	20060622	WO 2005-US45552	20051215
WO 2006066066	A3	20060810		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				

KG, KZ, MD, RU, TJ, TM

AU 2005316476	A1	20060622	AU 2005-316476	20051215
CA 2591544	A1	20060622	CA 2005-2591544	20051215
EP 1828390	A2	20070905	EP 2005-826631	20051215
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2008523813	T	20080710	JP 2007-546926	20051215
NZ 555830	A	20090131	NZ 2005-555830	20051215
IN 2007DN05222	A	20070817	IN 2007-DN5222	20070706
CN 101124328	A	20080213	CN 2005-80048323	20070814
US 20080269149	A1	20081030	US 2007-793430	20070822

L12 ANSWER 8 OF 23 MEDLINE on STN DUPLICATE 3

AU Li Dayuan; Liu Yong; Chen Jiawei; Velchala Neelima; Amani Fariba; Nemarkommula Aravind; Chen Kui; Rayaz Hassan; Zhang Dazhi; Liu Hongmei; Sinha Anjan K; Romeo Francesco; Hermonat Paul L; Mehta Jawahar L

TI Suppression of atherogenesis by delivery of TGFbeta1ACT using adeno-associated virus type 2 in LDLR knockout mice.

SO Biochemical and biophysical research communications, (2006 Jun 9) Vol. 344, No. 3, pp. 701-7. Electronic Publication: 2006-04-19. Journal code: 0372516. ISSN: 0006-291X.

L12 ANSWER 9 OF 23 MEDLINE on STN DUPLICATE 4

AU Liu Yong; Li Dayuan; Chen Jiawei; Xie Jin; Bandyopadhyay Sarmistha; Zhang Dazhi; Nemarkommula Aravind R; Liu Hongmei; Mehta Jawahar L; Hermonat Paul L

TI Inhibition of atherogenesis in LDLR knockout mice by systemic delivery of adeno-associated virus type 2-hIL-10.

SO Atherosclerosis, (2006 Sep) Vol. 188, No. 1, pp. 19-27. Electronic Publication: 2005-11-21. Journal code: 0242543. ISSN: 0021-9150.

L12 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

IN Warrington, Kenneth H.; Opie, Shaun R.; Muzyczka, Nicholas

TI Improved recombinant adeno-associated virus (rAAV) expression systems for genetic modification of specific capsid proteins and therapeutic applications

SO PCT Int. Appl., 180 pp. CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2004027019	A2	20040401	WO 2003-US13583	20030501
	WO 2004027019	A3	20040805		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2483624	A1	20040401	CA 2003-2483624	20030501
	AU 2003295312	A1	20040408	AU 2003-295312	20030501
	AU 2003295312	B2	20080814		
	EP 1496944	A2	20050119	EP 2003-786493	20030501
	EP 1496944	B1	20080820		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	NZ 536274	A	20080430	NZ 2003-536274	20030501

AT 405295	T	20080915	AT 2003-786493	20030501
NZ 561656	A	20090331	NZ 2003-561656	20030501
AU 2004226961	A1	20041118	AU 2004-226961	20040219
AU 2004226961	B2	20090611		
CA 2500523	A1	20041118	CA 2004-2500523	20040219
WO 2004099423	A1	20041118	WO 2004-US5205	20040219
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1618201	A1	20060125	EP 2004-712943	20040219
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
HK 1071518	A1	20090424	HK 2005-104362	20050524
US 20060088936	A1	20060427	US 2005-513059	20051002
US 20060093589	A1	20060504	US 2005-513348	20051017
US 20090148411	A1	20090611	US 2009-363454	20090130
US 20090148949	A1	20090611	US 2009-363469	20090130
US 20090149414	A1	20090611	US 2009-363514	20090130

L12 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 5  
 AU Zhong, Shumei; Sun, Shihua; Teng, Ba-Bie  
 TI The recombinant adeno-associated virus vector (rAAV2)-mediated apolipoprotein B mRNA-specific hammerhead ribozyme: A self-complementary AAV2 vector improves the gene expression  
 SO Genetic Vaccines and Therapy (2004), 2, No pp. given  
 CODEN: GVTEBH; ISSN: 1479-0556  
 URL: <http://www.gvt-journal.com/content/pdf/1479-0556-2-5.pdf>

L12 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
 IN Loiler, Scott A.; Flotte, Terence R.; Muzyczka, Nicholas; Atkinson, Mark A.  
 TI Improved rAAV vectors for enhancing transduction of cells expressing low-density lipoprotein receptors and therapeutic uses thereof  
 SO PCT Int. Appl., 214 pp.  
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
PI WO 2003089612	A2	20031030	WO 2003-US12225	20030417
WO 2003089612	A3	20040715		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003221733	A1	20031103	AU 2003-221733	20030417
US 20060292117	A1	20061228	US 2005-511914	20050906

L12 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
 IN Xiao, Weidong; Hauck, Bernd

TI Methods and compositions for the production of chimeric adeno-associated virus (AAV) vectors with broad tissue tropism, and methods of use for gene therapy

SO PCT Int. Appl., 80 pp.

CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003088899	A2	20031030	WO 2003-US10600	20030407
	WO 2003088899	A3	20050811		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003253595	A1	20031103	AU 2003-253595	20030407
	US 20040002159	A1	20040101	US 2003-408695	20030407

L12 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

IN Gao, Guangping; Wilson, James M.; Alvira, Maricio

TI Method of detecting and/or identifying adeno-associated virus (AAV) sequences and isolating novel AAV sequences

SO Eur. Pat. Appl., 419 pp.

CODEN: EPXXDW

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1310571	A2	20030514	EP 2002-257826	20021112
	EP 1310571	A3	20030813		
	EP 1310571	B1	20060215		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	CA 2406745	A1	20030513	CA 2002-2406745	20021112
	CA 2406745	C	20060110		
	CA 2465868	A1	20030522	CA 2002-2465868	20021112
	WO 2003042397	A2	20030522	WO 2002-US33629	20021112
	WO 2003042397	A3	20040205		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002361573	A1	20030526	AU 2002-361573	20021112
	AU 2002361573	B2	20080612		
	US 20030138772	A1	20030724	US 2002-291583	20021112
	JP 2003235562	A	20030826	JP 2002-328852	20021112
	JP 3958191	B2	20070815		
	EP 1456419	A2	20040915	EP 2002-797050	20021112
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	BR 2002014119	A	20050628	BR 2002-14119	20021112
	JP 2005525086	T	20050825	JP 2003-544211	20021112
	AT 317916	T	20060315	AT 2002-257826	20021112

HU 2006000229	A2	20060628	HU 2006-229	20021112
ES 2258601	T3	20060901	ES 2002-257826	20021112
NZ 532635	A	20070531	NZ 2002-532635	20021112
HK 1056198	A1	20060616	HK 2003-108160	20031111
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Journal code: 9421525. ISSN: 0969-7128.

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SO Molecular Therapy (2003), 8(6), 903-910  
CODEN: MTOHCK; ISSN: 1525-0016

L12 ANSWER 17 OF 23 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN DUPLICATE 7  
AU Anderson, R. J. [Reprint author]; Whiteway, A. J. [Reprint author];  
Cooper, M. S. [Reprint author]; Orchard, K. H. [Reprint author]; Prentice,  
H. G. [Reprint author]  
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very-low-density lipoprotein receptor  
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L12 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
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La, Monica Nicola; Monciotti, Andrea; Palombo, Fabio; Pieroni, Luisa;  
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adeno-associated virus and their use in gene therapy  
SO PCT Int. Appl., 53 pp.  
CODEN: PIXXD2  
PATENT NO. KIND DATE APPLICATION NO. DATE

PI	WO 9845462	A1	19981015	WO 1998-IT82	19980408
	W: AU, CA, CN, IL, JP, KR, MX, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9870778	A	19981030	AU 1998-70778	19980408
	CA 2326847	A1	19991021	CA 1999-2326847	19990408
	WO 9953084	A1	19991021	WO 1999-EP2384	19990408
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9939265	A	19991101	AU 1999-39265	19990408
	AU 752811	B2	20021003		
	EP 1068343	A1	20010117	EP 1999-922090	19990408
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
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TI Methods and compositions for liver-specific delivery of therapeutic molecules using recombinant adeno-associated virus vectors

SO PCT Int. Appl., 32 pp.  
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9809524	A1	19980312	WO 1997-US15453	19970902
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 933997	A1	19990811	EP 1997-940762	19970902
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001500376	T	20010116	JP 1998-512823	19970902
	US 6521225	B1	20030218	US 1997-921497	19970902
	US 20010051611	A1	20011213	US 2001-912680	20010724
	US 20030166284	A1	20030904	US 2002-109799	20020328

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TI Effect of adeno-associated virus-mediated transfer of low density lipoprotein receptor gene on treatment of hypercholesterolemia.

SO Science in China. Series C, Life sciences / Chinese Academy of Sciences, (1998 Aug) Vol. 41, No. 4, pp. 435-41.  
Journal code: 9611809. ISSN: 1006-9305.

L12 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

IN Kaplitt, Martin J.; Diethrich, Edward B.; Kaplitt, Michael G.

TI Method for transferring genes to the mammalian heart and blood vessels using adeno-associated virus (AAV)-derived vectors to improve cardiovascular function

SO PCT Int. Appl., 44 pp.  
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9712050	A1	19970403	WO 1996-US15446	19960926
	W: AU, CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6162796	A	20001219	US 1995-534351	19950927
	CA 2233167	A1	19970403	CA 1996-2233167	19960926
	AU 9672467	A	19970417	AU 1996-72467	19960926
	AU 727835	B2	20010104		
	EP 859853	A1	19980826	EP 1996-933912	19960926
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 11512608	T	19991102	JP 1996-513637	19960926
	ZA 9608170	A	19970721	ZA 1996-8170	19960927

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SO Casopis lekar u c eskych, (1995 Oct 4) Vol. 134, No. 19, pp. 625-9.  
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L12 ANSWER 17 OF 23 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN DUPLICATE 7

AB Adeno-associated virus type 2 (AAV-2) is a vector that shows great promise for many gene therapy protocols due to its robust nature and wide tropism. The principle AAV-2 receptors have been identified as heparan sulphate proteoglycan (HSPG) and basic fibroblast growth factor receptor (b-FGFR). AAV-2 shows poor tropism to haematopoietic cells due in part to a lack of these receptors. In order to improve the affinity of AAV-2 for these tissues, we attempted to modify its tropism by targeting it to low density lipoprotein receptor (LDL-R) which is present on normal and leukaemic haematopoietic progenitor cells. LDL-R is a member of a class of molecules that carry ligands into cells after clustering into clathrin coated pits and has a very high binding affinity for, and a rapid internalisation of, its ligands. The identification of the optimised peptide sequence RHLRKLRLAR from one of the ligands of LDL-R, apolipoprotein E, has provided us with a model system to assess whether it is possible to modify the tropism of AAV-2. We have inserted oligonucleotides that encode the RHLRKLRLAR peptide into different regions of the VP1 gene. Using these mutated VP1 genes we have made seven different targeted recombinant AAV-2 viruses containing the cDNA for green fluorescent protein ((GFP) (trAAV-GFP)) some of whose titres are identical to that of normal recombinant AAV-2. The monocytic leukaemia cell line U937 is refractory to infection by normal recombinant AAV-GFP and expresses LDL-R. We have shown that the targeted viruses are able to deliver GFP DNA in a virion dependent manner to U937 cells, enhancing the susceptibility of these cells by at least 4 orders of magnitude. These results suggest that by using LDL-R re-targeted virus it should be possible to transduce early haematopoietic progenitor cells.

L12 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN  
AB The present invention refers to vectors derived from recombinant Adeno-associated virus (AAV) which comprise at least one selected transgene between the sequences of the 5' and 3' inverted terminal repeats (ITRs) from AAV, and a DNA sequence encoding one or more AAV Rep protein, or a fragment or a derivative thereof, outside of the context of the AAV ITRs. These vectors have a larger packaging capacity and prior art vectors. The vectors according to the invention are useful in gene therapy. Thus,

plasmid pITR(GFP-Neo)P5Rep was prepared and HeLa cells were transfected with it. This plasmid contains the GFP gene under control of the CMV early promoter and the neomycin resistance gene under control of the SV40 early promoter between the 3'- and 5'-ITRs and the Rep gene controlled by the P5 and P19 promoters outside of the ITRs. The ITR-flanked expression construct was inserted into the HeLa cell genome in a Rep-dependent manner at the aavsl site.

L12 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

AB Provided are methods for selectively expressing therapeutic mols., such as secretory proteins, antisense mols. and ribozymes, in the liver. The methods find use in treating hepatic diseases or conditions. The methods also find use in treating any disease or condition in which systemic administration of the therapeutic substance, for example, a secretory protein, is desired. The methods involve administering to a mammalian patient having a need for liver expression of a therapeutic mol. an AAV vector containing a therapeutically effective amount of the therapeutic mol. Also provided are novel vectors employable in these methods. Expts. revealed that, following i.v. injection of AAV vectors into mice, the AAV genomes were found predominantly in the liver. The heterologous genes carried by these vectors (chimeric cytomegalovirus promoter-lacZ or  $\beta$ -globin promoter-globin genes) were expressed in the liver. Cotransfection of adenovirus 2-infected 293 cells with the AAV vectors and helper plasmid containing cap and rep genes resulted in production of 0.1-10% wild-type AAV. Replacement of the last 10 nucleotides of the ITR D sequence with unrelated nucleotides reduced this illegitimate recombination was reduced. Four recombinant AAV vectors (pD-5, pD-10, pD-15 and pD-20) with such modified ITR regions were prepared

L12 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2009 ACS on STN

AB The invention relates to the use of AAV vectors for the transfer of genes to the heart and vasculature. The vector preferably contains a gene encoding a protein which improves heart and vascular function during heart failure. In a specific embodiment, the vector is introduced into the heart and vasculature via a catheter, with the aid of fluoroscopy. The method and vectors for use therein provide for safe and stable gene expression of the transferred genes.

=> d au ti so pi 40-60 l13

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CODEN: JBCHA3; ISSN: 0021-9258

L13 ANSWER 41 OF 71 MEDLINE on STN DUPLICATE 18

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SO Journal of Lipid Research (1999), 40(2), 187-201  
CODEN: JLPRAW; ISSN: 0022-2275

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L13 ANSWER 44 OF 71 CAPLUS COPYRIGHT 2009 ACS on STN  
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 CODEN: BIJOAK; ISSN: 0264-6021

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 CODEN: UBKHAS; ISSN: 0130-7371

L13 ANSWER 46 OF 71 MEDLINE on STN DUPLICATE 19  
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 ISSN: 1059-1524.

L13 ANSWER 48 OF 71 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN  
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 Meeting Info.: Annual Meeting of the 6th International Congress on Cell Biology and the 36th American Society for Cell Biology. San Francisco, California, USA. December 7-11, 1996.  
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L13 ANSWER 49 OF 71 MEDLINE on STN DUPLICATE 20  
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 Journal code: 2984726R. ISSN: 0264-6021.  
 Report No.: NLM-PMC1217478.

L13 ANSWER 50 OF 71 MEDLINE on STN DUPLICATE 21  
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L13 ANSWER 51 OF 71 MEDLINE on STN DUPLICATE 22  
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 TI Low density lipoprotein receptor-related protein mediates apolipoprotein E-dependent neurite outgrowth in a central nervous system-derived neuronal cell line.  
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 Report No.: NLM-PMC40825.

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 TI Domains of transcription factor Sp1 required for synergistic activation with sterol regulatory element binding protein 1 of low density lipoprotein receptor promoter.  
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 Journal code: 7505876. ISSN: 0027-8424.  
 Report No.: NLM-PMC41650.

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L13 ANSWER 54 OF 71 MEDLINE on STN DUPLICATE 25  
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L13 ANSWER 55 OF 71 CAPLUS COPYRIGHT 2009 ACS on STN  
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 CODEN: EXMDA4; ISSN: 0531-5131

L13 ANSWER 56 OF 71 MEDLINE on STN DUPLICATE 26  
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L13 ANSWER 57 OF 71 MEDLINE on STN DUPLICATE 27  
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L13 ANSWER 58 OF 71 MEDLINE on STN DUPLICATE 28  
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 Journal code: 2985121R. ISSN: 0021-9258.

L13 ANSWER 60 OF 71 MEDLINE on STN DUPLICATE 30  
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 TI Expression of gp330 and gp330/alpha 2-macroglobulin receptor-associated protein in renal tubular differentiation.  
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L13 ANSWER 30 OF 71 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 12  
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 TI The  $\alpha$ -chains of C4b-binding protein mediate complex formation with low density lipoprotein receptor-related protein  
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 CODEN: JBCHA3; ISSN: 0021-9258

L13 ANSWER 31 OF 71 MEDLINE on STN DUPLICATE 13  
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L13 ANSWER 39 OF 71 MEDLINE on STN DUPLICATE 17  
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 Ref: 20  
 Journal code: 9011462. ISSN: 0924-3860.